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MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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FILE 'HOME' ENTERED AT 17:33:39 ON 16 SEP 2005

=> file medline, uspatful, dgene, embase, wpids, fsta, jicst, biosis  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
ENTRY SESSION  
FULL ESTIMATED COST 0.21 0.21

FILE 'MEDLINE' ENTERED AT 17:34:02 ON 16 SEP 2005

FILE 'USPATFULL' ENTERED AT 17:34:02 ON 16 SEP 2005  
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FILE 'BIOSIS' ENTERED AT 17:34:02 ON 16 SEP 2005  
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=> s ATM or ataxia-telangiectasia mutated  
L1 122313 ATM OR ATAXIA-TELANGIECTASIA MUTATED

=> s ATR or ATM-Rad3-related  
L2 11525 ATR OR ATM-RAD3-RELATED

=> s l1 and p53  
L3 2516 L1 AND P53

=> s l2 and p53  
L4 600 L2 AND P53

=> s l3 and phosphorylat?  
L5 1195 L3 AND PHOSPHORYLAT?

=> s l2 and phosphorylate  
L6 197 L2 AND PHOSPHORYLATE

=> s l6 and l7  
L7 NOT FOUND

The L-number entered could not be found. To see the definition  
of L-numbers, enter DISPLAY HISTORY at an arrow prompt (=>).

=> s l5 and l6  
L7 92 L5 AND L6

=> e jackson/au  
E1 1 JACKSMAN A L/AU  
E2 1 JACKSO E K/AU  
E3 8 --> JACKSON/AU  
E4 1920 JACKSON A/AU  
E5 1 JACKSON A 3RD/AU  
E6 3692 JACKSON A A/AU  
E7 1 JACKSON A A IV/AU  
E8 1 JACKSON A A O/AU  
E9 1 JACKSON A A S F/AU  
E10 39 JACKSON A B/AU  
E11 431 JACKSON A C/AU  
E12 2 JACKSON A C JR/AU

=> d his

(FILE 'HOME' ENTERED AT 17:33:39 ON 16 SEP 2005)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS,  
BIOSIS' ENTERED AT 17:34:02 ON 16 SEP 2005

L1 122313 S ATM OR ATAXIA-TELANGIECTASIA MUTATED  
L2 11525 S ATR OR ATM-RAD3-RELATED

L3 2516 S L1 AND P53  
 L4 600 S L2 AND P53  
 L5 1195 S L3 AND PHOSPHORYLAT?  
 L6 197 S L2 AND PHOSPHORYLATE  
 L7 92 S L5 AND L6  
 E JACKSON/AU

=> s l7 and (apoptosis inhibition)  
 L8 1 L7 AND (APOPTOSIS INHIBITION)

=> d l8 ti abs ibib tot

L8 ANSWER 1 OF 1 USPATFULL on STN  
 TI Compositions and methods for increasing drug efficiency  
 AB In one embodiment, provided herein are compositions and methods for increasing drug efficiency. In certain embodiments, the compositions contain conjugates having the formula: D-L-S wherein D is a drug moiety; L, which may or may not be present, is a non-releasing linker moiety; and S is a substrate for a protein or lipid kinase that is overexpressed, overactive or exhibits undesired activity in a target system.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:215471 USPATFULL  
 TITLE: Compositions and methods for increasing drug efficiency  
 INVENTOR(S): Newman, Michael James, San Diego, CA, UNITED STATES  
 Castellino, Angelo John, San Diego, CA, UNITED STATES  
 Desharnais, Joel, San Diego, CA, UNITED STATES  
 Guo, Zijian, San Diego, CA, UNITED STATES  
 Li, Qing, San Diego, CA, UNITED STATES  
 Ballatore, Carlo, San Diego, CA, UNITED STATES  
 Sun, Chengzao, San Diego, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005187147	A1	20050825
APPLICATION INFO.:	US 2004-948707	A1	20040922 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-505325P	20030922 (60)
	US 2004-568340P	20040504 (60)
	US 2004-581835P	20040622 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	FISH & RICHARDSON, PC, 12390 EL CAMINO REAL, SAN DIEGO, CA, 92130-2081, US	
NUMBER OF CLAIMS:	170	
EXEMPLARY CLAIM:	1	
LINE COUNT:	10426	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> d his

(FILE 'HOME' ENTERED AT 17:33:39 ON 16 SEP 2005)

FILE 'MEDLINE, USPATFULL, DGENE, EMBASE, WPIDS, FSTA, JICST-EPLUS, BIOSIS' ENTERED AT 17:34:02 ON 16 SEP 2005

L1 122313 S ATM OR ATAXIA-TELANGIECTASIA MUTATED  
 L2 11525 S ATR OR ATM-RAD3-RELATED  
 L3 2516 S L1 AND P53  
 L4 600 S L2 AND P53

```

L5      1195 S L3 AND PHOSPHORYLAT?
L6      197 S L2 AND PHOSPHORYLATE
L7      92 S L5 AND L6
        E JACKSON/AU
L8      1 S L7 AND (APOPTOSIS INHIBITION)

```

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=> s l7 and (apoptosis induction)
L9      2 L7 AND (APOPTOSIS INDUCTION)

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=> d l9 ti abs ibib toto
'TOTO' IS NOT A VALID FORMAT FOR FILE 'USPATFULL'

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The following are valid formats:

The default display format is STD.

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ABS ----- AB
ALL ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PTERM, DCD,
            RLI, PRAI, DT, FS, REP, REN, EXNAM, LREP, CLMN, ECL,
            DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,
            INCLM, INCLS, NCL, NCLM, NCLS, IC, ICM, ICS,
            EXF, ARTU
ALLG ----- ALL plus PAGE.DRAW
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BIB.EX ---- BIB for original and latest publication
BIBG ----- BIB plus PAGE.DRAW
BROWSE ---- See "HELP BROWSE" or "HELP DISPLAY BROWSE". BROWSE must
            entered on the same line as DISPLAY, e.g., D BROWSE.
CAS ----- OS, CC, SX, ST, IT
CBIB ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PRAI, DT, FS
DALL ----- ALL, delimited for post-processing
FP ----- PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI, RLI,
            PRAI, IC, ICM, ICS, INCL, INCLM, INCLS, NCL,
            NCLM, NCLS, EXF, REP, REN, ARTU, EXNAM, LREP,
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FP.EX ----- FP for original and latest publication
FPALL ----- PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI,
            RLI, PRAI, IC, ICM, ICS, INCL, INCLM, INCLS, NCL, NCLM,
            NCLS, EXF, REP, REN, ARTU, EXNAM, LREP, CLMN, DRWN, AB,
            PARN, SUMM, DRWD, DETD, CLM
FPBIB ----- PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI,
            RLI, PRAI, REP, REN, EXNAM, LREP, CLM, CLMN, DRWN
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            its structure diagram
FPG ----- FP plus PAGE.DRAW
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HIT ----- All fields containing hit terms
HITRN ----- HIT RN and its text modification
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IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IALLG ----- IALL plus PAGE.DRAW
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IBIBG ----- IBIB plus PAGE.DRAW
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 DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,  
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 SBIB ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, RLI, PRAI,  
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 STD ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, RLI, PRAI,  
 DT, FS, LN.CNT, INCL, INCLM, INCLS, NCL, NCLM, NCLS,  
 IC, ICM, ICS, EXF (STD is the default)  
 STD.EX ----- STD for original and latest publication  
 TRIAL ----- AN, TI, INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC,  
 ICM, ICS

ENTER DISPLAY FORMAT (STD):end

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(FILE 'HOME' ENTERED AT 17:33:39 ON 16 SEP 2005)

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L1 122313 S ATM OR ATAXIA-TELANGIECTASIA MUTATED  
 L2 11525 S ATR OR ATM-RAD3-RELATED  
 L3 2516 S L1 AND P53  
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 L6 197 S L2 AND PHOSPHORYLATE  
 L7 92 S L5 AND L6  
 E JACKSON/AU  
 L8 1 S L7 AND (APOPTOSIS INHIBITION)  
 L9 2 S L7 AND (APOPTOSIS INDUCTION)

=> d l9 ti abs ibib toto

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The default display format is STD.

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 DRWN, AB, GOVI, PARN, SUMM, DRWD, DETD, CLM, INCL,  
 INCLM, INCLS, NCL, NCLM, NCLS, IC, ICM, ICS,  
 EXF, ARTU  
 ALLG ----- ALL plus PAGE.DRAW  
 BIB ----- AN, TI, IN, INA, PA, PAA, PAT, PI, AI, PTERM, DCD, RLI,  
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 DALL ----- ALL, delimited for post-processing  
 FP ----- PI, TI, IN, INA, PA, PAA, PAT, PTERM, DCD, AI, RLI,  
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NCLM, NCLS, EXF, REP, REN, ARTU, EXNAM, LREP,  
 CLMN, DRWN, AB  
 FP.EX ----- FP for original and latest publication  
 FPALL ----- PI, TI, IN, INA, PA, PAA, PAT, PETRM, DCD, AI,  
 RLI, PRAI, IC, ICM, ICS, INCL, INCLM, INCLS, NCL, NCLM,  
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 PARN, SUMM, DRWD, DETD, CLM  
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 GI ----- PN and page image numbers  
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 DT, FS, LN.CNT  
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 without answer number. SCAN must be entered on the  
 same line as DISPLAY, e.g., D SCAN)  
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 DT, FS, LN.CNT, INCL, INCLM, INCLS, NCL, NCLM, NCLS,  
 IC, ICM, ICS, EXF (STD is the default)  
 STD.EX ---- STD for original and latest publication  
 TRIAL ----- AN, TI, INCL, INCLM, INCLS, NCL, NCLM, NCLS, IC,  
 ICM, ICS

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 L3 2516 S L1 AND P53  
 L4 600 S L2 AND P53  
 L5 1195 S L3 AND PHOSPHORYLAT?  
 L6 197 S L2 AND PHOSPHORYLATE  
 L7 92 S L5 AND L6

E JACKSON/AU  
L8 1 S L7 AND (APOPTOSIS INHIBITION)  
L9 2 S L7 AND (APOPTOSIS INDUCTION)

=> d l9 ti abs ibib tot

L9 ANSWER 1 OF 2 USPATFULL on STN

TI Synthetic lethal screen using RNA interference

AB The invention provides a method for identifying one or more genes in a cell of a cell type which interact with, e.g., modulate the effect of, an agent, e.g., a drug. For example, an identified gene may confer resistance or sensitivity to a drug, i.e., reduces or enhances the effect of the drug. The invention also provides STK6 and TPX2 as a gene that exhibits synthetic lethal interactions with KSP encoding a kinesin-like motor protein, and methods and compositions for treatment of diseases, e.g., cancers, by modulating the expression of STK6 or TPX2 gene and/or the activity of STK6 or TPX2 gene product. The invention also provides genes involved in cellular response to DNA damage, and their therapeutic uses.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2005:208905 USPATFULL  
TITLE: Synthetic lethal screen using RNA interference  
INVENTOR(S): Linsley, Peter S., Seattle, WA, UNITED STATES  
Mao, Mao, Redmond, WA, UNITED STATES  
Kim, Annette S., Harleysville, PA, UNITED STATES  
Friend, Stephen H., Philadelphia, PA, UNITED STATES  
Bartz, Steven R., Seattle, WA, UNITED STATES  
Cleary, Michele A., Bothell, WA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005181385	A1	20050818
APPLICATION INFO.:	US 2004-947637	A1	20040922 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-554284P	20040317 (60)
	US 2004-548568P	20040227 (60)
	US 2003-505229P	20030922 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	JONES DAY, 222 EAST 41ST ST, NEW YORK, NY, 10017, US	
NUMBER OF CLAIMS:	218	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	43 Drawing Page(s)	
LINE COUNT:	18166	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L9 ANSWER 2 OF 2 USPATFULL on STN

TI Modulation of cellular apoptosis and methods for treating cancer

AB This invention relates to modulating cellular apoptosis in an animal by regulating the quantity of functional KILLER/DR5 receptor protein molecules in the target cell(s) of said animal, increasing the effectiveness of certain therapies such as chemotherapy and radiotherapy. Such modulation increases the difference in toxicity response between target cell(s) and non-target cell(s) in response to a therapy or treatment and comprises upregulation of wild-type proteins in cells targeted for increased apoptosis or upregulation of loss-of-function proteins in cells targeted for decreased apoptosis. The methods of this invention comprise administering a nucleic acid sequence encoding a wild-type KILLER/DR5 receptor protein or a nucleic acid sequence encoding a loss-of-function mutant KILLER/DR5 receptor protein

to said animal. The pharmaceutical compositions of this invention comprise a loss-of-function KILLER/DR5 receptor protein. The isolated nucleic acid sequences of this invention comprise wild-type KILLER/DR5 receptor nucleic acid sequence(s) bearing one or more point mutations at selected amino acid(s). A target of this invention is spleen and gastrointestinal cancer cells.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

ACCESSION NUMBER: 2002:92049 USPATFULL

TITLE: Modulation of cellular apoptosis and methods for treating cancer

INVENTOR(S): El-Deiry, Wafik S., Bryn Mawr, PA, UNITED STATES  
Bernhard, Eric J., Philadelphia, PA, UNITED STATES  
Burns, Timothy F., Philadelphia, PA, UNITED STATES  
McDonald, E. Robert, III, Philadelphia, PA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002048566	A1	20020425
APPLICATION INFO.:	US 2001-950836	A1	20010913 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2000-232556P	20000914 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	NATH & ASSOCIATES, 1030 15th STREET, 6TH FLOOR, WASHINGTON, DC, 20005	
NUMBER OF CLAIMS:	23	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	15 Drawing Page(s)	
LINE COUNT:	2423	

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## Refine Search

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result set

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<u>L4</u>	L3 and l2	8	<u>L4</u>
<u>L3</u>	jackson.in.	9399	<u>L3</u>
<u>L2</u>	L1 and p53	222	<u>L2</u>
<u>L1</u>	ATM or ATR	49004	<u>L1</u>

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## Search Results - Record(s) 1 through 8 of 8 returned.

### ☐ 1. Document ID: US 6898533 B1

L4: Entry 1 of 8

File: USPT

May 24, 2005

US-PAT-NO: 6898533

DOCUMENT-IDENTIFIER: US 6898533 B1

TITLE: Methods for predicting the biological, chemical, and physical properties of molecules from their spectral properties

DATE-ISSUED: May 24, 2005

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Miller; Dwight W.	Pine Bluff	AR		
Beger; Richard	White Hall	AR		
Lay, Jr.; <u>Jackson</u> O.	Little Rock	AR		
Wilkes; Jon G.	Little Rock	AR		
Freeman; James P.	White Hall	AR		

US-CL-CURRENT: 702/27; 702/28, 702/30

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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### ☐ 2. Document ID: US 6514983 B1

L4: Entry 2 of 8

File: USPT

Feb 4, 2003

US-PAT-NO: 6514983

DOCUMENT-IDENTIFIER: US 6514983 B1

TITLE: Compounds, methods and pharmaceutical compositions for treating neural or cardiovascular tissue damage

DATE-ISSUED: February 4, 2003

#### INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Jia-He	Cockeysville	MD		
Zhang; Jie	Ellicott City	MD		
<u>Jackson</u> ; Paul F.	Bel Air	MD		
Maclin; Keith M.	Baltimore	MD		

US-CL-CURRENT: 514/285; 514/183, 514/410, 546/61, 546/62, 546/66, 548/421

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KWIC	Draw Desc	Ima
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### ☐ 3. Document ID: US 6399603 B1

US-PAT-NO: 6399603

DOCUMENT-IDENTIFIER: US 6399603 B1

TITLE: Therapeutic heterocycles

DATE-ISSUED: June 4, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jacobs; Robert Toms	Hockessin	DE		
Folmer; James Jeffrey	Newark	DE		
Simpson; Thomas Richard	West Chester	PA		
Chaudhari; Bipinchandra	Wilmington	DE		
Frazee; William <u>Jackson</u>	Wilmington	DE		
Davenport; Timothy Wayne	Wilmington	DE		
Sundarababu; Gajendran	West Chester	PA		

US-CL-CURRENT: 514/234.5; 514/252.02, 514/266.1, 514/266.3, 544/119, 544/238, 544/287

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	ROME	Draw Desc	Ima
------	-------	----------	-------	--------	----------------	------	-----------	--	--	--	--------	------	-----------	-----

☐ 4. Document ID: US 6380211 B1

L4: Entry 4 of 8

File: USPT

Apr 30, 2002

US-PAT-NO: 6380211

DOCUMENT-IDENTIFIER: US 6380211 B1

TITLE: Alkoxy-substituted compounds, methods, and compositions for inhibiting PARP activity

DATE-ISSUED: April 30, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Jackson</u> ; Paul F.	Bel Air	MD		
Maclin; Keith M.	Baltimore	MD		
Zhang; Jie	Ellicott City	MD		

US-CL-CURRENT: 514/309; 514/233.5, 544/128, 546/141

Full	Title	Citation	Front	Review	Classification	Date	Reference				Claims	ROME	Draw Desc	Ima
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☐ 5. Document ID: US 6346536 B1

L4: Entry 5 of 8

File: USPT

Feb 12, 2002

US-PAT-NO: 6346536

DOCUMENT-IDENTIFIER: US 6346536 B1

TITLE: Poly(ADP-ribose) polymerase inhibitors and method for treating neural or cardiovascular tissue damage using the same

DATE-ISSUED: February 12, 2002

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Jia-He	Cockeysville	MD		
<u>Jackson</u> ; Paul F.	Bel Air	MD		
Maclin; Keith M.	Baltimore	MD		
Zhang; Jie	Ellicott City	MD		

US-CL-CURRENT: 514/286; 514/288, 546/66, 546/72, 546/76, 549/224, 549/384

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Desc	Ima
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☐ 6. Document ID: US 6306889 B1

L4: Entry 6 of 8

File: USPT

Oct 23, 2001

US-PAT-NO: 6306889

DOCUMENT-IDENTIFIER: US 6306889 B1

TITLE: Compounds, methods and pharmaceutical compositions for treating neural or cardiovascular tissue damage

DATE-ISSUED: October 23, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Li; Jia-He	Cockeysville	MD		
Zhang; Jie	Ellicott City	MD		
<u>Jackson</u> ; Paul F.	Bel Air	MD		
Maclin; Keith M.	Baltimore	MD		

US-CL-CURRENT: 514/410; 548/421

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Desc	Ima
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☐ 7. Document ID: US 6197785 B1

L4: Entry 7 of 8

File: USPT

Mar 6, 2001

US-PAT-NO: 6197785

DOCUMENT-IDENTIFIER: US 6197785 B1

TITLE: Alkoxy-substituted compounds, methods, and compositions for inhibiting PARP activity

DATE-ISSUED: March 6, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
<u>Jackson</u> ; Paul F.	Bel Air	MD		
Maclin; Keith M.	Baltimore	MD		
Zhang; Jie	Ellicott City	MD		

US-CL-CURRENT: 514/309; 514/233.5, 514/299, 544/128, 546/141, 546/183

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KMIC	Draw Desc	Ima
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☐ 8. Document ID: US 6121278 A

L4: Entry 8 of 8

File: USPT

Sep 19, 2000

US-PAT-NO: 6121278

DOCUMENT-IDENTIFIER: US 6121278 A

TITLE: Di-n-heterocyclic compounds, methods, and compositions for inhibiting parp activity

DATE-ISSUED: September 19, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jackson; Paul F.	Bel Air	MD		
Maclin; Keith M.	Baltimore	MD		
Zhang; Jie	Ellicott City	MD		

US-CL-CURRENT: [514/292](#); [514/222.8](#), [514/224.5](#), [514/226.2](#), [514/229.2](#), [514/229.8](#), [514/243](#),  
[514/248](#), [514/267](#), [514/291](#), [514/293](#), [514/81](#), [544/183](#), [544/234](#), [544/250](#), [544/32](#), [544/66](#),  
[544/95](#), [546/21](#), [546/81](#), [546/82](#), [546/83](#), [546/84](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference			Claims	KIND	Draw Desc	Ima
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Terms	Documents
L3 and L2	8

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